RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10|522,341_
Source: _PCT_
Date Processed by STIC: _2-17-05_

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2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
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Revised 01/24/05

PCT

RAW SEQUENCE LISTING   DATE: 02/17/2005
PATENT APPLICATION: US/10/522,341   TIME: 12:04:43

         Input Set : A:\sequence listing.txt
         Output Set: N:\CRF4\02172005\J522341.raw

     2 <110> APPLICANT: Kock, Michael
     3   Frank, Markus
     4   Badur, Ralf
     6 <120> TITLE OF INVENTION: Novel Selection Processes
     8 <130> FILE REFERENCE: 532622010400
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/522,341
C--> 11 <141> CURRENT FILING DATE: 2005-01-25
    13 <160> NUMBER OF SEQ ID NOS: 71
    15 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed
(pg. 1-4, 6)

   350 <210> SEQ ID NO: 4
   351 <211> LENGTH: 427
   352 <212> TYPE: PRT
   353 <213> ORGANISM: Artificial sequence
W--> 354 (<220> FEATURE:) Pls insert
   354 <223> OTHER INFORMATION: Description of the artificial sequence: coding for
   355   cytosine deaminase (codA)
   357 <400> SEQUENCE: 4
   358 Met Ser Asn Asn Ala Leu Gln Thr Ile Ile Asn Ala Arg Leu Pro Gly
   359 1   5   10   15
   361 Glu Glu Gly Leu Trp Gln Ile His Leu Gln Asp Gly Lys Ile Ser Ala
   362   20   25   30
   364 Ile Asp Ala Gln Ser Gly Val Met Pro Ile Thr Glu Asn Ser Leu Asp
   365   35   40   45
   367 Ala Glu Gln Gly Leu Val Ile Pro Pro Phe Val Glu Pro His Ile His
   368   50   55   60
   370 Leu Asp Thr Thr Gln Thr Ala Gly Gln Pro Asn Trp Asn Gln Ser Gly
   371 65   70   75   80
   373 Thr Leu Phe Glu Gly Ile Glu Arg Trp Ala Glu Arg Lys Ala Leu Leu
   374   85   90   95
   376 Thr His Asp Asp Val Lys Gln Arg Ala Trp Gln Thr Leu Lys Trp Gln
   377   100   105   110
   379 Ile Ala Asn Gly Ile Gln His Val Arg Thr His Val Asp Val Ser Asp
   380   115   120   125
   382 Ala Thr Leu Thr Ala Leu Lys Ala Met Leu Glu Val Lys Gln Glu Val
   383   130   135   140
   385 Ala Pro Trp Ile Asp Leu Gln Ile Val Ala Phe Pro Gln Glu Gly Ile
   386 145   150   155   160
   388 Leu Ser Tyr Pro Asn Gly Glu Ala Leu Leu Glu Glu Ala Leu Arg Leu
   389   165   170   175

FYI:

Pls insert
<220> whenever
<221>, <222>
or <223>
is present.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,341

DATE: 02/17/2005
TIME: 12:04:43

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Output Set: N:\CRF4\02172005\J522341.raw

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392             180                 185                 190
394 Tyr Gly Val Glu Ser Leu His Lys Thr Phe Ala Leu Ala Gln Lys Tyr
395             195                 200                 205
397 Asp Arg Leu Ile Asp Val His Cys Asp Glu Ile Asp Asp Glu Gln Ser
398     210                 215                 220
400 Arg Phe Val Glu Thr Val Ala Ala Leu Ala His His Glu Gly Met Gly
401 225                 230                 235                 240
403 Ala Arg Val Thr Ala Ser His Thr Thr Ala Met His Ser Tyr Asn Gly
404                 245                 250                 255
406 Ala Tyr Thr Ser Arg Leu Phe Arg Leu Leu Lys Met Ser Gly Ile Asn
407             260                 265                 270
409 Phe Val Ala Asn Pro Leu Val Asn Ile His Leu Gln Gly Arg Phe Asp
410             275                 280                 285
412 Thr Tyr Pro Lys Arg Arg Gly Ile Thr Arg Val Lys Glu Met Leu Glu
413     290                 295                 300
415 Ser Gly Ile Asn Val Cys Phe Gly His Asp Asp Val Phe Asp Pro Trp
416 305                 310                 315                 320
418 Tyr Pro Leu Gly Thr Ala Asn Met Leu Gln Val Leu His Met Gly Leu
419             325                 330                 335
421 His Val Cys Gln Leu Met Gly Tyr Gly Gln Ile Asn Asp Gly Leu Asn
422             340                 345                 350
424 Leu Ile Thr His His Ser Ala Arg Thr Leu Asn Leu Gln Asp Tyr Gly
425             355                 360                 365
427 Ile Ala Ala Gly Asn Ser Ala Asn Leu Ile Ile Leu Pro Ala Glu Asn
428     370                 375                 380
430 Gly Phe Asp Ala Leu Arg Arg Gln Val Pro Val Arg Tyr Ser Val Arg
431 385                 390                 395                 400
433 Gly Gly Lys Val Ile Ala Ser Thr Gln Pro Ala Gln Thr Thr Val Tyr
434             405                 410                 415
436 Leu Glu Gln Pro Glu Ala Ile Asp Tyr Lys Arg
437             420                 425
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4799 <211> LENGTH: (27)
4800 <212> TYPE: DNA
4801 <213> ORGANISM: Artificial sequence
W--> 4802 <220> FEATURE:
4803 <223> OTHER INFORMATION: Description of the artificial sequence:
4804       oligonucleotide primer
4806 <400> SEQUENCE: 50
4807 cgtgaatacg gcgtggagtc g
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4811 <211> LENGTH: (26)
4812 <212> TYPE: DNA
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4816       oligonucleotide primer
4818 <400> SEQUENCE: 51
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,341   DATE: 02/17/2005
                                          TIME: 12:04:44

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02172005\J522341.raw

E--> 4819 cggcaggata atcaggttgg
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     4845 <213> ORGANISM: Artificial sequence
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     4847 <223> OTHER INFORMATION: Description of the artificial sequence:
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     4850 <400> SEQUENCE: 53
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     5508 <212> TYPE: DNA
     5509 <213> ORGANISM: Zea mays
W--> 5510 <220> FEATURE:
     5511 <221> NAME/KEY: CDS
     5512 <222> LOCATION: (1)..(981)
     5513 <223> OTHER INFORMATION: coding for 5-methylthioribose kinase
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     5517 Ala Arg Ala Leu Leu Ser Ser Pro Leu Ala Gly Ala Ser Pro Asp Cys
     5518   1   5   10   15
     5520 cag tca gcc tca gcc atg gcc gcg gag gag gag cag ggc ttc cgc ccg   96
     5521 Gln Ser Ala Ser Ala Met Ala Ala Glu Glu Glu Gln Gly Phe Arg Pro
     5522   20   25   30
     5524 ctg gac gag tcg tcc ctg ctc gcc tac atc aag gcc acg ccg gcg ctc   144
     5525 Leu Asp Glu Ser Ser Leu Leu Ala Tyr Ile Lys Ala Thr Pro Ala Leu
     5526   35   40   45
     5528 gcc tcc cgc ctc ggc ggc ggt ggc agt cta gac tcc atc gag atc aag   192
     5529 Ala Ser Arg Leu Gly Gly Gly Gly Ser Leu Asp Ser Ile Glu Ile Lys
     5530   50   55   60
     5532 gag gtc ggc gac ggc aac ctc aac ttc gtc tac atc gtg cag tcc gag   240
     5533 Glu Val Gly Asp Gly Asn Leu Asn Phe Val Tyr Ile Val Gln Ser Glu
     5534   65   70   75   80
     5536 gcc ggc gcc atc gtc gtc aag cag gcg ctc ccg tac gtg cgc tgc gtg   288
     5537 Ala Gly Ala Ile Val Val Lys Gln Ala Leu Pro Tyr Val Arg Cys Val
     5538   85   90   95
     5540 ggg gat tcg tgg ccc atg acg cgg gag cgc gcc tac ttc gag gcc tcc   336
     5541 Gly Asp Ser Trp Pro Met Thr Arg Glu Arg Ala Tyr Phe Glu Ala Ser
     5542   100   105   110
     5544 acg ctg cgg gag cac ggc cgc ctg tgc ccg gag cac acc ccc gag gtg   384
     5545 Thr Leu Arg Glu His Gly Arg Leu Cys Pro Glu His Thr Pro Glu Val
     5546   115   120   125
     5548 tac cac ttc gac cgg acc ttg tcg ctg atg ggg atg cgc tac atc gag   432
     5549 Tyr His Phe Asp Arg Thr Leu Ser Leu Met Gly Met Arg Tyr Ile Glu
     5550   130   135   140
     5552 ccc ccg cac atc atc ctc cgc aag ggc ctc gtc gcc ggt gtc gag tac   480
     5553 Pro Pro His Ile Ile Leu Arg Lys Gly Leu Val Ala Gly Val Glu Tyr
     5554 145   150   155   160

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,341

DATE: 02/17/2005
TIME: 12:04:44

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02172005\J522341.raw

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5560 ttc acc tcc ctc ctc tat aac aat acc acg gat cat aag aac gga gtt      576
5561 Phe Thr Ser Leu Leu Tyr Asn Asn Thr Thr Asp His Lys Asn Gly Val
5562             180                 185                 190
5564 gct aag tac tct gcg aac gtg gag atg tgt agg ctc acg gag caa gtt      624
5565 Ala Lys Tyr Ser Ala Asn Val Glu Met Cys Arg Leu Thr Glu Gln Val
5566             195                 200                 205
5568 gtg ttc tcg gac cca tac cgt gtt tcc aaa ttt aat cgg tgg acc tcg      672
5569 Val Phe Ser Asp Pro Tyr Arg Val Ser Lys Phe Asn Arg Trp Thr Ser
5570     210                 215                 220
5572 cct tat ctc gac aaa gat gct gag gca gtt cgc gag gat gat gag ctc      720
5573 Pro Tyr Leu Asp Lys Asp Ala Glu Ala Val Arg Glu Asp Asp Glu Leu
5574 225                 230                 235                 240
5576 aag ttg gaa gta gct ggg ctg aaa tcg atg ttt atc gag aga gct caa      768
5577 Lys Leu Glu Val Ala Gly Leu Lys Ser Met Phe Ile Glu Arg Ala Gln
5578             245                 250                 255
5580 gct ctg att cat gga gat ctc cac act ggt tct atc atg gtg acc gaa      816
5581 Ala Leu Ile His Gly Asp Leu His Thr Gly Ser Ile Met Val Thr Glu
5582             260                 265                 270
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5585 Val Gln Leu Lys Ser Leu Ile Gln Asn Leu Gly Ser Met Gly Pro Met
5586             275                 280                 285
5588 ggg ttt gat att ggg agc ctt cct tgg aaa cct gat ttt ggg cat act      912
5589 Gly Phe Asp Ile Gly Ser Leu Pro Trp Lys Pro Asp Phe Gly His Thr
5590     290                 295                 300
5592 atg cac aga atg ggc atg ctg atc aag cga atg atc gta agg ctt aca      960
5593 Met His Arg Met Gly Met Leu Ile Lys Arg Met Ile Val Arg Leu Thr
5594 305                 310                 315                 320
5596 aga atg gat ctt gaa gac aat tgaagagtcg tggaatttgt tccacaaaaa      1011
5597 arg met asp Leu glu asp asn
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E--> 5597 arg met asp Leu glu asp asn

325

← move to   (325) delete

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ccctcacacc ggtgacgggg atcgcgatgg gtac                              5674
```

(handwritten margin note, right side) P ls explain "N" location.

(handwritten note, lower left) See error explanation on page 7.

(handwritten oval note, lower center) The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VARIABLE LOCATION SUMMARY   DATE: 02/17/2005
PATENT APPLICATION: US/10/522,341   TIME: 12:04:45

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02172005\J522341.raw

Error Explanation:2

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
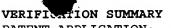residue n or Xaa represents.

Seq#:55; N Pos. 5014
Seq#:57; N Pos. 6697
Seq#:59; N Pos. 1026

VERIFICATION SUMMARY   DATE: 02/17/2005
PATENT APPLICATION: US/10/522,341   TIME: 12:04:45

Input Set : **A:\sequence listing.txt**
Output Set: **N:\CRF4\02172005\J522341.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:228 M:283 W: Missing Blank Line separator, <220> field identifier
L:231 M:283 W: Missing Blank Line separator, <220> field identifier
L:236 M:283 W: Missing Blank Line separator, <220> field identifier
L:354 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:357 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:4
L:443 M:283 W: Missing Blank Line separator, <220> field identifier
L:641 M:283 W: Missing Blank Line separator, <220> field identifier
L:645 M:283 W: Missing Blank Line separator, <400> field identifier
L:866 M:283 W: Missing Blank Line separator, <220> field identifier
L:1092 M:283 W: Missing Blank Line separator, <220> field identifier
L:1199 M:283 W: Missing Blank Line separator, <220> field identifier
L:1384 M:283 W: Missing Blank Line separator, <220> field identifier
L:1568 M:283 W: Missing Blank Line separator, <220> field identifier
L:1713 M:283 W: Missing Blank Line separator, <220> field identifier
L:1802 M:283 W: Missing Blank Line separator, <220> field identifier
L:1891 M:283 W: Missing Blank Line separator, <220> field identifier
L:2014 M:283 W: Missing Blank Line separator, <220> field identifier
L:2260 M:283 W: Missing Blank Line separator, <220> field identifier
L:2606 M:283 W: Missing Blank Line separator, <220> field identifier
L:2834 M:283 W: Missing Blank Line separator, <220> field identifier
L:3185 M:283 W: Missing Blank Line separator, <220> field identifier
L:3413 M:283 W: Missing Blank Line separator, <220> field identifier
L:3642 M:283 W: Missing Blank Line separator, <220> field identifier
L:3754 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:37
L:3847 M:283 W: Missing Blank Line separator, <220> field identifier
L:4039 M:283 W: Missing Blank Line separator, <220> field identifier
L:4225 M:283 W: Missing Blank Line separator, <220> field identifier
L:4411 M:283 W: Missing Blank Line separator, <220> field identifier
L:4597 M:283 W: Missing Blank Line separator, <220> field identifier
L:4782 M:283 W: Missing Blank Line separator, <220> field identifier
L:4802 M:283 W: Missing Blank Line separator, <220> field identifier
L:4807 M:252 E: No. of Seq. differs, <211> LENGTH:Input:27 Found:21 SEQ:50
L:4814 M:283 W: Missing Blank Line separator, <220> field identifier
L:4819 M:252 E: No. of Seq. differs, <211> LENGTH:Input:26 Found:20 SEQ:51
L:4826 M:283 W: Missing Blank Line separator, <220> field identifier
L:4846 M:283 W: Missing Blank Line separator, <220> field identifier
L:4851 M:252 E: No. of Seq. differs, <211> LENGTH:Input:27 Found:20 SEQ:53
L:4857 M:283 W: Missing Blank Line separator, <220> field identifier
L:4869 M:283 W: Missing Blank Line separator, <220> field identifier
L:4957 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:55
L:4957 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:55
L:4957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:4980
L:4975 M:283 W: Missing Blank Line separator, <220> field identifier
L:5087 M:283 W: Missing Blank Line separator, <220> field identifier
L:5203 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:57
L:5203 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:57

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/522,341

DATE: 02/17/2005
TIME: 12:04:45

Input Set : **A:\sequence listing.txt**
Output Set: **N:\CRF4\02172005\J522341.raw**

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L:5203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:6660
L:5262 M:283 W: Missing Blank Line separator, <220> field identifier
L:5510 M:283 W: Missing Blank Line separator, <220> field identifier
L:5597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:1011
L:5597 M:254 E: No. of Bases conflict, LENGTH:Input:325 Counted:1032 SEQ:59
L:5597 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:6
L:5597 M:112 C: (48) String data converted to lower case,
L:5597 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1011 Found:1032 SEQ:59
L:5673 M:283 W: Missing Blank Line separator, <220> field identifier
L:5761 M:283 W: Missing Blank Line separator, <220> field identifier
L:5842 M:283 W: Missing Blank Line separator, <220> field identifier
L:5923 M:283 W: Missing Blank Line separator, <220> field identifier
L:6003 M:283 W: Missing Blank Line separator, <220> field identifier
L:6015 M:283 W: Missing Blank Line separator, <220> field identifier
L:6027 M:283 W: Missing Blank Line separator, <220> field identifier
```